

PC C Vector Review  
Answers nearest 10<sup>th</sup>.

..Name \_\_\_\_\_

Per \_\_\_\_\_ Team \_\_\_\_\_

1. A plane flying west at 379 km/hr encounters a wind from the NE at 37 km/hr. What is the actual speed of the plane and its True direction?

2. Paul rode his bike 16 miles east, then jogged another 9 miles south and finally climbed down a vertical ladder to the base of a rock formation in a canyon. The ladder is a quarter mile long! How far from his starting point is he?

3. Draw quadrilateral ODGT.

let  $\vec{OD} = \vec{d}$ ,  $\vec{OG} = \vec{g}$ ,  $\vec{OT} = \vec{t}$

a) Find  $\vec{GT}$

b) Find  $\vec{DX}$  if  $x$  is the midpoint of  $GT$ .

4. Find the vector equation of the line through  $(7, -5)$  parallel to  $6\mathbf{i} - 2\mathbf{j}$